## **Precautions**

- · As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further
- Discs with non-standard shapes (e.g. heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

## Cleaning the cabinet

. Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine

### On power sources

- For AC operation, use the supplied AC.
- power cord; do not use any other type · The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet even if the
- player itself has been turned off. · Unplug the player from the wall outlet when it is not to be used for an extended period of time.
- For battery operation, use six size D (R20)
- When the batteries are not to be used, remove them to avoid damage that can be caused by battery leakage or corrosion.
- The nameplate indicating operating voltage, power consumption, etc. is

## located at the bottom. On placement

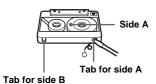
- Do not leave the player in a location near heat sources, or in a place subject to direc sunlight, excessive dust or mechanical
- Do not place the player on an inclined or
- unstable place. • Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

## On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- · If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

### Notes on cassettes

. Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



 The use of a cassette with more than 90 minutes of play time is not recommended except for long, continuous recording or

## **Notes on CDs**

Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.



- · Do not use solvents such as benzine. thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- · Do not stick paper or sticker on the CD. nor scratch the surface of the CD.
- · After playing, store the CD in its case. If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

## About CD-Rs/CD-RWs

This player can play CD-Rs/CD-RWs recorded in the CD-DA format\*, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

\* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

## Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

## Troubleshooting

- The power does not come on. · Make sure the batteries are inserted correctly
- · Replace all the batteries with new ones if they
- · You cannot turn on the player with the remote when you operate the player on batteries.

## The power is not on, and "bAttErY" and "Error" are displayed alternately

· Make sure the batteries are inserted correctly Replace all the batteries with new ones if they

### There is no audio Adjust the volume.

- Unplug the headphones when listening through speakers.
- Noise is heard. Someone is using a portable telephone or other equipment that emits radio waves near the player. →Move the portable telephone,

## **CD Player**

etc., away from the player.

## The CD does not play or "no dISC" lights in the display even when a CD is in place.

- · Place the CD with the label surface up. · Clean the CD.
- · Take out the CD and leave the CD compartment open for about an hour to dry
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- . There is a problem with the quality of the CD-R/CD-RW, recording device or application
- Replace all the batteries with new ones if they

## The sound drops out.

- Reduce the volume
- · Clean the CD, or replace it if the CD is badly
- · Place the player in a location free from
- · Clean the lens with a commercially available
- · The sound may drop out or noise may be heard when using poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

## Reception is poor.

· Reorient the antenna to improve FM





## · Replace all the batteries with new ones if the

are weak.

· If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

### Tape Player

## press an operation button.

Close the cassette compartment securely.

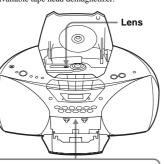
The tape does not move when you

- The REC button does not function

or the tape does not play or record. · Make sure the safety tab on the cassette is in

## Poor or distorted playback, recording or erasing quality.

- · Clean the heads, pinch roller and capstan with a cleaning swab slightly moistened with cleaning fluid or alcohol.
- · Replace all the batteries with new ones if they TYPE II (high position) or TYPE IV (metal) tape is being used. Use TYPE I (normal) tape
- · Demagnetize the heads using a commercially available tape head demagnetizer



## The remote does not function.

- · Make sure that you are pointing the remote at
- remote and the player.
- strong light such as direct sunlight or

After trying the above remedies, if you still have

## **Specifications**

**AUDIO POWER SPECIFICATIONS** 

HARMONIC DISTORTION With 3.2-ohm loads, both channels driven from 150 - 6,300 Hz; rated 1.8 W per

in AC operation

Spindle speed

(CLV)

Number of channels

Frequency response

Wow and flutter

Radio section

Frequency range

Recording system

Fast winding time

Frequency response

General

distortion)

Power cons

Battery life

AC 20 W

Power requirements

120V AC 60 Hz

For remote control:

FM recording

Tape playback

CD playback

Supplied accessory AC power cord (1) Remote control (1)

Optional accessories Sony MDR headphone series

20 - 20 000 Hz +1/-2 dB

Below measurable limit

FM: 87.5 - 108 MHz

FM: Telescopic antenna

Cassette-corder section

4-track 2 channel stereo

AM: Built-in ferrite bar antenna

TYPE I (normal): 80 - 10 000 Hz

Headphones jack (stereo minijack

For CD radio cassette-corder

9 V DC, 6 size D (R20) batterie

For CD radio cassette-corder

Sony R20P: approx. 13.5 h

Sony R20P: approx. 7.5 h

Sony R20P: approx. 2.5 h

Sony alkaline LR20: approx. 20 h

Sony alkaline LR20: approx. 15 h

Sony alkaline LR20: approx. 7 h

Approx.  $386 \times 173 \times 269 \text{ mm (w/h/d)}$ (15 \( \frac{1}{4} \times 6 \( \frac{7}{8} \times 10 \( \frac{5}{8} \) inches) (incl. projecting parts Approx. 3.5 kg (7 lb. 11 oz) (incl. batteries)

Design and specifications are subject to change

3 V DC, 2 size AAA (R03) batteries

For 16 - 68 ohms impedance headphones

2.3 W + 2.3 W (at 3.2 ohms 10% harmonic

AM: Taiwan model: 531 - 1 611 kHz

Other models: 530 - 1710 kHz

Approx. 120 s (sec.) with Sony cassette C-60

Full range: 10 cm dia., 3.2 ohms, cone type (2)

## Other specifications

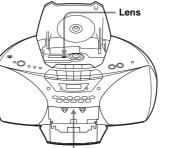
### CD player section

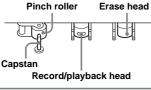
Compact disc digital audio system Laser diode propertie

200~r/min~(rpm) to 500~r/min~(rpm)

Material: GaAlAs Wave length: 780 nm

Emission duration: Continuo Laser output: Less than  $44.6~\mu W$ (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm





- Replace all the batteries in the remote with new ones if they are weak.

- luorescent lamp light. Move closer to the player when using the

· Reorient the player itself to improve AM

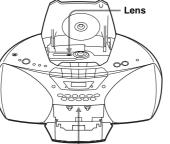


## The audio is weak or has poor quality

- · Move the player away from the TV.

# The picture of your TV becomes

POWER OUTPUT AND TOTAL channel-minimum RMS power, with no more than 10 % total harmonic distortion



- the remote sensor on the player
- · Remove any obstacles in the path of the
- · Make sure the remote sensor is not exposed to

problems, unplug the AC power cord and remove all the batteries. After all the indications in the display disappear, plug the power cord and insert the batteries again. If the problem persists, please consult your nearest Sony dealer

## SONY

CD Radio

Cassette-

Operating Instructions

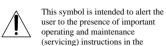
Corder

### WARNING

To prevent fire or shock hazard, do not expose the player to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of



### CAUTION The use of optical instruments with this product will increase eve hazard.

sufficient magnitude to constitute a

risk of electric shock to persons.

literature accompanying the

### WARNING Do not install the appliance in a confined space,

such as a bookcase or built-in cabir To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

For customers in Canada

## Information

### For customers in the USA This equipment has been tested and found to

comply with the limits for a Class B digital

Record the serial number in the space provided device, pursuant to Part 15 of the FCC Rules. below. Refer to them whenever you call upon These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

- Reorient or relocate the receiving antenna. Increase the separation between the
- equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help. This class B digital device complies with part 1 of the FCC rules. Operation is subject to the

following two conditions: (1) This device may

not cause harmful interference, and (2) this

device must accept any interference received.

including interference that may cause undesired You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this

## Serial No.

Owner's Record

your Sony dealer regarding this product. Model No. CFD-S250 For customers in the USA lease register this product on line at

The model number is located at the bottom and

the serial number is located in the battery

http://www.sonv.com/productregistration Proper registration will enable us to send you periodic mailings about new product, services and other important announcemen Registering your product will also allow us to contact you in the unlikely event that the product needs adjustment or modification. Thank you.

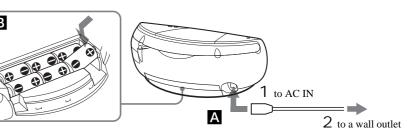
http://www.sonv.net/

## **Power Sources**

CFD-S250

Sony Corporation ©2002 Printed in China

3-249-667**-11** (1)



Connect the AC power cord A or insert six size D (R20) batteries (not supplied) into the battery compartment B.

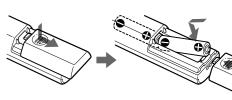
### Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD

- . To use the player on batteries, disconnect the AC power cord from the player. · When you operate the player on batteries, you cannot turn on the player using the remote
- Preparing the remote C

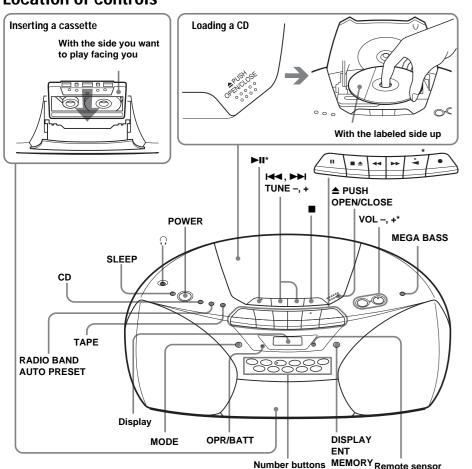
## Insert two size AAA (R03) batteries (not supplied). Replacing battery

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

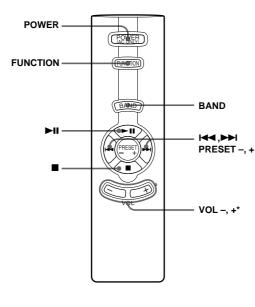




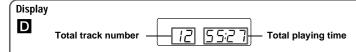
## **Location of controls**



### Remote Control



\*The button has a tactile dot.



### To turn on/off the power Press POWER.

## To adjust the volume

Press VOL +, -.

## To listen through headphones

Connect the headphones to the  $\bigcap$  (headphones) jack.

## Adjusting the sound emphasis

## To reinforce the bass sound

Press MEGA BASS.

"MEGA BASS" appears in the display. To return to normal sound, press the button again.

## Falling asleep to music

- 1 Play the music source you want.
- 2 Press SLEEP to display "SLEEP."
- 3 Press SLEEP to select the minutes until the player goes off automatically. Each time you press the button, the indication changes as follows: "60"  $\rightarrow$  "90"  $\rightarrow$  "120"  $\rightarrow$  "OFF"  $\rightarrow$  "10"  $\rightarrow$  "20"  $\rightarrow$  "30"

## To cancel the sleep function

Press POWER to turn off the power

When you are playing a tape using this function:

If the tape length of one side is longer than the set time, the player will not go off until the tape reaches

## Playing a CD

1 Press CD (direct power-on).

(On the remote, press POWER and then press FUNCTION reapeatedly until "Cd" appears in the display.)

- 2 Load a CD in the CD compartment.
- 3 Press ♣ PUSH OPEN/CLOSE to close the CD compartment.
- 4 Press ►II.

The player playe all the treels once

То	Press
stop playback	
pause playback	►II
	Press the button again to resume play after pause.
go to the next track	<b>▶</b>
go back to the previous track	H44
remove the CD	▲ PUSH OPEN/CLOSE
locate a specific track directly*	a number button of the track
locate a point while listening	►► (forward) or ► (backward) while playing until you
to the sound	find the point
locate a point while observing	►► (forward) or ► (backward) in pause until you find
the display	the point

To locate a track numbered over 10, press >10 first, then the corresponding number buttons. Example: To play track number 23, press >10 first, then 2 and 3.

## Using the display

## To check the total track number and playing time Press DISPLAY•ENT•MEMORY in stop mode (see fig. D).

### To check the remaining time

Press DISPLAY•ENT•MEMORY repeatedly while playing a CD. The display changes as

the current track number and playing time

- the current track number and the remaining time on the current track\*
- the number of tracks left and remaining time on the CD

## Selecting the play mode

Press MODE until "REP 1" "REP ALL" "SHUF" "SHUF REP" "PGM" "PGM REP" appears in the display. Then proceed as follows:

То	Select	Then do this
repeat a single track	"REP 1"	Press the number button for the track you want trepeat.
repeat all tracks	"REP ALL"	Press ►II.
shuffle play	"SHUF"	Press ►II.
repeat tracks in random order	"SHUF REP"	Press ►II.
program play	"PGM"	Press the number buttons for the tracks you wan to program in the order you want up to 20 tracks (see fig. ■). Then press ►■.
repeat programmed tracks	"PGM REP"	Press the number buttons for the tracks you wan to program in the order you want up to 20 tracks Then Press >II.

## To cancel selected play mode

Press MODE until the selected mode disappears from the display.

## To check the programmed track and playing order in the display To check the order of tracks before play, press DISPLAY. ENT. MEMORY

Every time you press the button, the track number appears in the programmed order.

## To change the current program

Press ■ once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

You can record your own program. After you've created the program, insert a blank tape and press • to

## Listening to the radio

1 Press RADIO BAND•AUTO PRESET until the band you want appears in the display (direct power-on).

Each time you press the button, the indication changes as follows: "FM" → "AM"

2 Hold down TUNE + or – until the frequency digits begin to change in the

The player automatically scans the radio frequencies and stops when it finds a

clear station. If you can't tune in a station, press the button repeatedly to change the frequency

If the FM broadcast is noisy, press MODE until "Mono" appears in the display and the radio will play in

## Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- 1 Press RADIO BAND•AUTO PRESET to select the band.
- 2 Hold down RADIO BAND•AUTO PRESET for 2 seconds until "AUTO" flashes in the display.
- 3 Press DISPLAY•ENT•MEMORY.

The stations are stored in memory from the lower frequencies to the higher ones.

## If a station cannot be preset automatically

- You need to preset a station with a weak signal manually
- 1 Press RADIO BAND•AUTO PRESET to select the band.
- 2 Tune in a station you want.
- 3 Hold down the number buttons that you want to preset the new station on for about 2 seconds. To select the preset number over 10, press >10 first, then the corresponding number buttons. You need to hold down the last number button to enter for about 2 seconds. (Example: To select 12, press >10 and 1 first, then hold down 2 for about 2 seconds.)

## Playing preset radio stations

- 1 Press RADIO BAND•AUTO PRESET to select the band.
- 2 Press the number buttons to tune in the stored station.

To tune in a preset station over 10, press >10 first, then corresponding number

(Example: To tune in a preset station 12, press >10 and 1 first, and then press 2.)

### On the remote 1 Press BAND.

2 Press PRESET + or - to tune in the stored station.

## Playing a tape

1 Press TAPE (direct power-on).

(On the remote, press POWER and then press FUNCTION repeatedly until "TAPE" appears in the display.)

2 Press ■ to open the tape compartment and insert a recorded tape. Close the compartment. Use TYPE I (normal) tape only.

То	Press
stop playback	■▲
fast-forward or rewind the tape	<b>◄</b> or <b>▶</b> ▶
pause playback	II
	Press the button again to resume play after pause.
eject the cassette	■▲

## Recording

- 1 Press to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.
- 2 Select the program source you want to record.

## To record from the CD player

Press CD and insert a CD (See "Playing a CD").

### To record from the radio

Press RADIO BAND•AUTO PRESET and tune in the station you want (See "Listening to the radio").

- 3 Press to start recording.
- (**◄** is depressed automatically.)

То	Press
stop recording	■▲
pause recording	Proce the button again to recume recording

- Adjusting the volume or the audio emphasis will not affect the recording level.
- $\bullet \ \ \text{If the AM program makes a whistling sound after you've pressed} \ \bullet \ \text{in step 3, press MODE to select}$ the position of ISS (Interference Suppress Switch) that most decreases the noise
- For the best results, use the AC power as a power source for recording.
- . To erase a recording, proceed as follows:
- 1 Insert a tape with the recording you want to erase.
- 2 Press TAPE.
- 3 Press ●.

<sup>\*</sup> For a track whose number is more than 20, the remaining time appears as "- -:- -" in the display.